

January 1988

# The National Locksmith<sup>®</sup>



**Schlage's New Key N' Keyless Lock**

• Plus Distributor Profiles •

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The National Locksmith • January 1988 • Volume 59, Number 1

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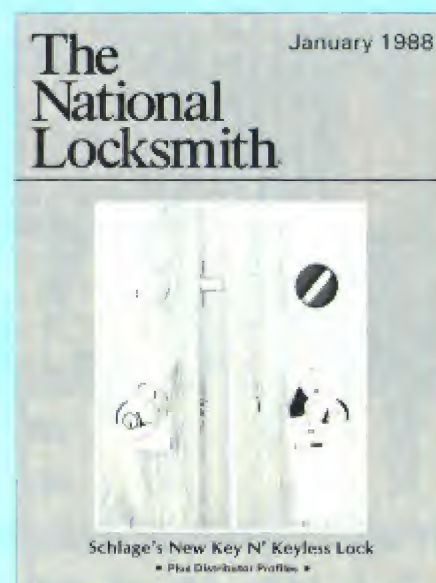
Carl Cloud recounts a safe job which easily could have been his last. Fortunately, he survived the experience to write this article. Nice to still have you with us, Carl!

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Our legal beagle, attorney Fred Steingold, tells the locksmith how to use the Small Claims Court system to get justice. Have any uncollected debts? Sue 'em!

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This month our experts answer questions on safe opening, manipulation, padlock service, and much more. Do you have a question or problem? Ask *Shop Talk*!



#### On The Cover

Shown on this month's cover is a new lock product offered by Schlage Lock Company. Called the Key N' Keyless lock, it uses a wireless infrared beam to communicate between the knoblock and deadbolt. See inside for more details.



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# Letters

Comments, Suggestions and Criticisms

*The National Locksmith is interested in your views. We do reserve the right to edit for clarity and lengths. Please address your comments, praise, or criticism to: Editor, The National Locksmith, 698 Bonded Parkway, Streamwood, IL 60107.*

## Thank You From Door Prize Winner

While attending the Northwest Tri-Regional Conference, I had the good fortune to win one of the door prizes donated by you and your company.

I would simply like to thank you for your participation and for the Car Opening Manual that I won.

D. Kevin Jewell  
Canada

## Reader Recommends Aircraft Lubricant

I recently ran across a product at my marine dealer that seems to be useful for many purposes, and I thought your readers might be interested in it.

Boeshield T-9 apparently was developed by Boeing Aviation for use inside aircraft structures as a protectant and lubricant. However, it also penetrates very well, displaces moisture, and once in place seems to last forever. They say this is because of its

wax base which forms a shield against corrosive elements.

So far, I've used it on shop tools, guns, snowmobiles, ski bindings, bicycles, locks and other metal items that used to rust up or quit working. Before T-9, I would have to spray WD-40 or one of its imitators every month or so. Now I do it about every six months and have yet to see a failure. Great stuff and worth looking for!

The name of the distributor shown on the can is: PMS Products, Inc., Stuart, FL 34994.

Vernon Vandenberg  
Michigan

## Locksmith Distributor Comments on H.R. 2777

As a national locksmith distributor with an 800 phone number I would like to comment on Bill H.R. 2777. After checking with my attorney, your first violation would probably result in a warning, however your second violation would be more severe and could be up to \$20,000 in attorney fees to defend you. After checking sales with the computer, lock picks are less than 2% of gross business so, as you see, they would not be offered for sale because making sure you sell only to authorized locksmiths would be costly and time consuming for the amount of sales. The premade pick business would dry up, however books and spring steel would

be available so the locksmith could make their own picks. So all is not lost in the pick business.

Car openers is approximately 3% gross of business, and that is another story. They require constant research and no one would do that if they could not sell their tools. They are usually odd shaped (long and slim) and small priced around \$10.00 to \$15.00, and are hard to pack with other supplies. The ban on car openers would probably make no difference if all distributors could not offer them for sale. Manufacturers with no distributors buying picks and car opening tools, that segment of the business would dry up and they probably will lose that part of business. The manufacturers that make only car opening tools would be forced out of business.

Trade magazines would probably be hurt quite a bit. The trade magazines would lose many advertisers and many interesting articles which would reduce the size and information of the trade magazine. So in all probability the trade magazine would be the biggest loser if H.R. 2777 is passed.

Concerning the locksmith picks, not much effect, books and spring steel will be available and are easy to make, so he will be able to make his own. Car opening tools are constantly changing and there is much research involved in making them. In all probability he

*Continued on page 68*



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# Commentary

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Happy New Year!

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I always seem to be surprised when a new year creeps up on us. In fact, it usually takes until about March for me to consistently remember to write the correct date on my checks and letters. A new year always seems to bring a new promise with it. It is only at this time of year that we all feel like starting with a clean slate. So that is why I want to take this opportunity to present my ideas for some good New Year's Resolutions to help you prosper through 1988.

*Resolve to present a professional image through the condition of your shop, van and clothing.* I visit a lot of locksmith operations, and I am always more comfortable in the ones with a clean and well-organized environment. Your customers will spend more money with you and think more highly of your business if your premises are clean and neat. There are still too many lock shops that look like dirty, old garages. Heck, even the garages have cleaned up their act. They are better able to justify their high prices when the shop is clean and the tools and parts are neatly organized. It makes them look like professionals.

Also, when the IBM repairman comes to fix my typewriter, he carries his tools in a briefcase, and he wears a suit. You need not go this far perhaps, but you will be taken more seriously if you present a neat and professional appearance. Unfortunately, we still seem to have a "grubby" image with the public. Changing that will be good for business.

*Resolve to charge enough for each job to make a comfortable profit.* When you cut your prices you are not hurting the competition as much as you are hurting yourself. You need to make a certain amount of profit just to cover your overhead. If your overhead is really low, then you should keep your prices up and reap a higher percentage of profit per job.

Your purpose in business must not be to hurt the competition. Your purpose in business must be to make as much money for yourself as possible. When you obtain

a job because of a cut rate price, you are not taking profit away from your competition. You are taking it away from yourself. After all, you are the one selling your materials and services for a below-standard-rate. *You* are the one walking away from the job with less money than you should have. If you have a low overhead, keep the prices fair and use your higher rate of profit to invest in more equipment and better training.

*Resolve to upgrade your skills by taking more training this year.* If you own your own company, you can strengthen your earning power by learning new skills, and by helping your employees learn them too. If you are an employee, show the initiative to seek out more training, even if you have to pay for it. You will become a more valuable locksmith to both your boss and to yourself. Some possible subjects you might want to learn more about include safes, alarms, electronic systems, masterkeying, and automotive locksmithing. The more skills you have, the more money you will make as a locksmith.

I want to wish you all a safe, prosperous and happy New Year!

\*\*\*\*\*

The locksmith industry mourns the passing of Robert Rognon of New York. Bob held ALOA membership number 2 and was one of the original founders of that organization. He gave countless hours of his time, dedicating his life to the betterment of locksmiths. All our sympathy to wife, Lee. We will remember you, Bob.



*Marc Goldberg*  
Editor/Publisher

January 5



# Enter the 1988 Technitips Contest

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## HPC Club



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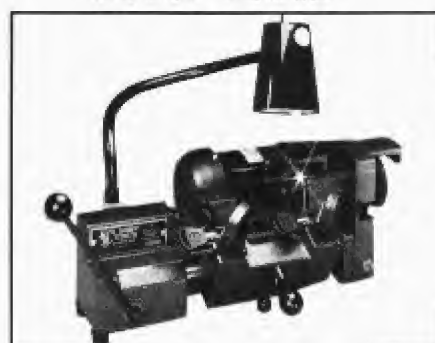
## The Free Flo



### Second Prize

Designed to cut Medeco® and Emhart® keys. Duplicates a Medeco® key very quickly and accurately. Will also cut regular cylinder keys. By Fulton Lock.

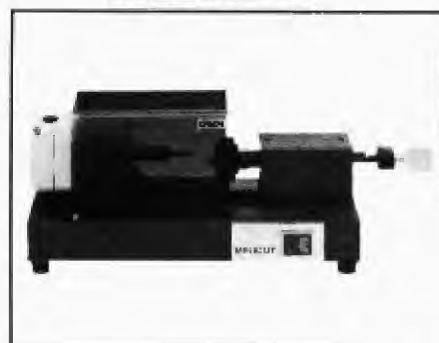
## Saber Tooth



### Third Prize

A fast semi-automatic duplicator featuring carbide cutter, full 1/3 hp motor, 2400 rpm. Working lamp and deburring brush are standard. From The Locksmith Store.

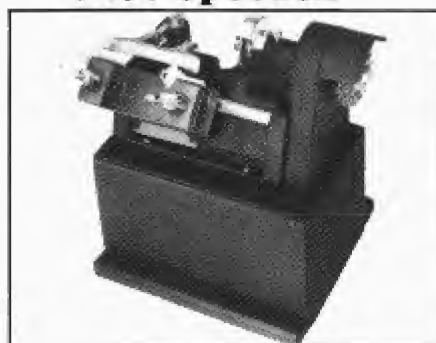
## Ilco KD94



### Fourth Prize

Cuts the 1137 tubular key, brass or steel accurately and quickly. Features include large chuck to hold standard size key heads, easily adjustable.

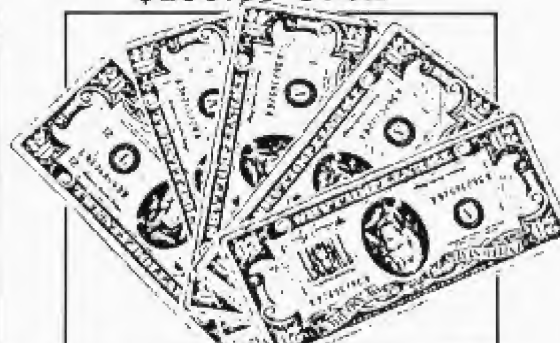
## 9150 Speedex



### Fifth Prize

The Speedex has been transformed from the old stand-by to the machine for today's needs. Features double sided jaws. From HPC.

## \$100.00 Cash



### Sixth Prize

Everyone can use a few extra dollars! This prize will brighten your day...and fatten your wallet.

## Contest Rules

All you need to do to enter is submit a tip, covering any aspect of locksmithing to *The National Locksmith*. Certainly, you have a favorite way of doing things that you'd like to share with other locksmiths. Why not write it down and submit it to: Steve Spiwak, Technitips' Editor, *The National Locksmith*, 698 Bonded Parkway, Streamwood, IL 60107.

Tips submitted to other industry publications **will not be eligible!** So get busy and send in your tips today! You may win cash, merchandise, or even one of several key machines! At the end of the year, we choose the winners of the above prizes.

Last year dozens of people walked off with money and prizes. Wouldn't you like to be one of the prize winners for 1987? Enter today! It's a lot easier than you think!

## Every Tip Wins 'Locksmith Bucks!'

Yes, every tip published wins a prize. But remember, you must submit your tip to *The National Locksmith* exclusively. Each and every tip published in Technitips wins you \$20.00 in Locksmith Bucks! Use this spendable cash toward the purchase of any books or merchandise from *The National Locksmith*. You also receive a Bonded Locksmith bumper sticker, decal and patch. Plus you are now eligible for the really big prizes!

## Best Tip of the month prizes!

If your tip is chosen as the best tip of the month, you will win \$50.00 in cash as well as \$30.00 in Locksmith Bucks! Plus you will receive a quartz Locksmith watch, a Bonded Locksmith bumper sticker, decal, patch and a Locksmith Cap. Plus, you may win one of the great prizes pictured above.



# Technitips

Helpful Hints from Fellow Locksmiths



Send me your Technitips. Who knows, you may be our next winner! c/o The National Locksmith, 698 Bonded Parkway, Streamwood, IL 60107.

by Steve Spiwak

## OOPS!

In the August issue we inadvertently printed a tip on removing the cylinder from the knob of a Schlage A lock. That tip should not have run in Technitips since it was very basic information and not really an original tip. We had intended to run it elsewhere in the magazine as a reminder to beginners and students on how to disassemble that lock.

Then in the December issue a locksmith from Missouri wrote a tongue-in-cheek letter. In it he thanked us for the tip and said that he had been sawing off the knobs before reading the tip. We should have noted at that time that the tip was printed in error and that the letter was a hoax. It's lucky we have a good sense of humor!

## 1987 Technitips Winners

Congratulations go out to all those of you who had tips published in 1987. We urge all of you to get in on the act in 1988 by submitting your tips all year long. There are some great prizes again for the year end winners, but remember...every tip published wins. Also, the best tip each month wins special prizes as well. Then at the end of the year, we select the best tips that ran all year and award some very exclusive prizes. Here are the 1987 winners.

**Bob Sieveking** of Illinois has won First Prize for the best tip of the year with his suggestions on servicing Shaw Walker fire files. This tip, published in the October issue, has won Bob an HPC 1200CM code machine.

**Richard Crecelius** of Nebraska has won second prize for his July tip on electronically monitoring doors. He has won an HPC/Silca One machine.

**Ken Brann** of Maine has won third prize with his June tip solving a special keying requirement on American Lock padlocks. He has won an HPC 9150 Speedex key machine.

**Geoffrey Weliver** of Indiana has won fourth prize for his November tip on opening a MacNeal and Urban safe. He has won a complete Schlage Keepsafer Plus package.

**Kenneth Rossi** of New York has won fifth prize for his April tip on modifying his Ilco key machine to make it semi-automatic. He has won his choice of American Lock Company padlock display units.

**Larry Teal** of New Mexico has won sixth prize for his February tip on repairing the Schlage A53PD entrance lock. He has won \$100.00 cash.

**Frank Markisello** of New York has earned an Honorable Mention for his January tip on servicing Ford door cylinders. He has won \$25.00 cash.

## January's Best Tip

I recently discovered an easier technique for finding the combination on many Presto, Abus type resettable combination locks. The only tool necessary is a magnascope or any light with a pin point light such as a bend-a-light.

Beginning with the wheel farthest to your left, shine the light down the left side of the wheel. As you slowly turn the wheel you will see it suddenly drop off. Turn it one more number and you should not see any edges. To be sure, slowly advance one more number. If you see the edge start to appear you know you're in the right spot.

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Do this to each wheel. Write your numbers down as you find them then add five numbers to each. (i.e. 6355 will transfer to 1800). Your lock should open.

This takes about two minutes to do and is much quicker than the shim method. Try it on a lock you know the combination to, for practice. Editor's Note: This technique will also work on most suitcase locks.

Francis Henson  
Georgia

There seems to be a great deal of interest in creating a lock cylinder that will only operate in one direction. There would be two keys for the cylinder—one which is restricted and will only lock and one that is not so restricted that will lock and unlock. The greatest call for these cylinders has been on businesses that the owner allows an employee to close. This function allows the employee to close but restricts the use of his key from opening. The employee can not re-enter after hours for any reason.

Illustration one shows a standard

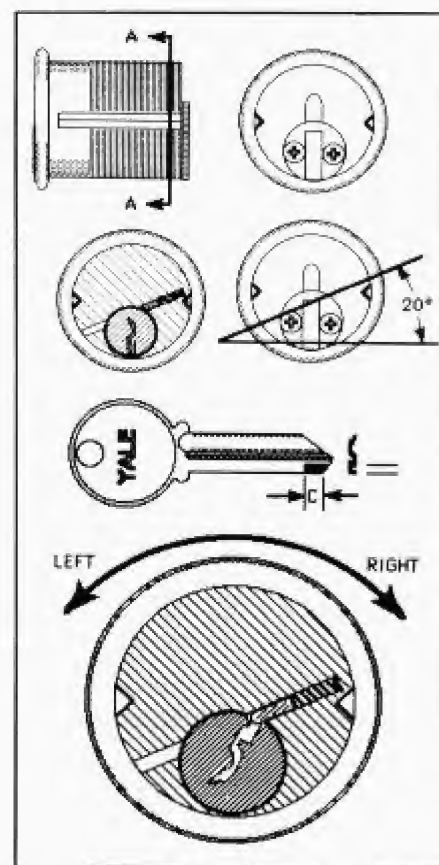


Illustration 1

cylinder that has been modified. The cylinder has been sectioned at "A" to show the modification. The cylinder is first disassembled, and the plug removed. A 7/64" blind hole has been drilled on approximately a 20° angle from the lower left to the upper right of the cylinder. The hole is approximately 1" deep and must not go clear through the cylinder. The hole is then loaded with a Chrysler #4 bottom pin and spring. The lock is properly keyed and the plug replaced. The enlarged illustration shows the function of the new pin. With the cylinder plug in this position, you can see that if the cylinder were to be rotated right, the pin would be forced back into the hole and allow the plug to rotate around freely. If the cylinder plug were to be rotated left, the pin would extend into the bottom of the keyway and act as a shear, not allowing the cylinder to rotate further. Right rotation of the cylinder will free the plug, allowing the key to be removed. This modification will not jam, can be used with any keyway, wears quite well and can be done on the job in about fifteen minutes.

When using a 1 1/4" cylinder, place the hole between the number five and number six pin hole. Cut the restricted key on a five pin blank and the unrestricted key on a six pin blank. The

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longer key will fill the keyway and allow the cylinder to operate in either direction. The shorter key will leave the keyway open, allowing the pin to restrict the plug's rotation. File a "false" cut in the sixth space of the key. When using a 1" cylinder, place the hole between the number four and number five pins (13/16" from the face of the cylinder). File away the back of the key as shown in the illustration, to restrict the function of the key. A whole key will operate the lock in either direction. I hope that this tip, will help a fellow locksmith to satisfy the special needs of his customers.

Robert Sieveking  
Illinois

\*\*\*\*\*

This tip deals with the installation of a Mag strike when the door frame is built with concrete or cinder blocks instead of a 2" x 4" frame around the door.

I ran into this again today, and was having a fit because of the problem it was causing me. I had installed the lock, and had prepared the frame for the Mag strike. I inserted the screws and placed the long screws into the metal box and found that they did not go all the way in as usual. I tried to close the door, and I found that the door would not close. I realized then that this was another headache the builder had prepared for me so I removed the strike and tried the door again. It was still no good—the door would not close.

I found that my problem was this. When I put the screws into the metal box and screwed them in, the screws went in as far as the cement or cinder block. At this time the screws could go no farther and as a result pushed the wood back toward the point of least resistance toward the door and as a result bow the wood back.

I went to my van and returned with my Remington power hammer. I loaded it with a #2 lead and placed the nail into the barrel. I fired a shot into the hole where the strike box placed and sure enough the shot pulled the board right back against the block. I tried the door and it closed with no problem. With this accomplished I placed the box strike back into the hole, screwed in the box again, I fired the nails into the holes of the box strike. This worked very well, and the installation was completed and with a very secure Mag strike. I hope this helps some of you

locksmiths out as it did me.

Fred Spencer  
Pennsylvania

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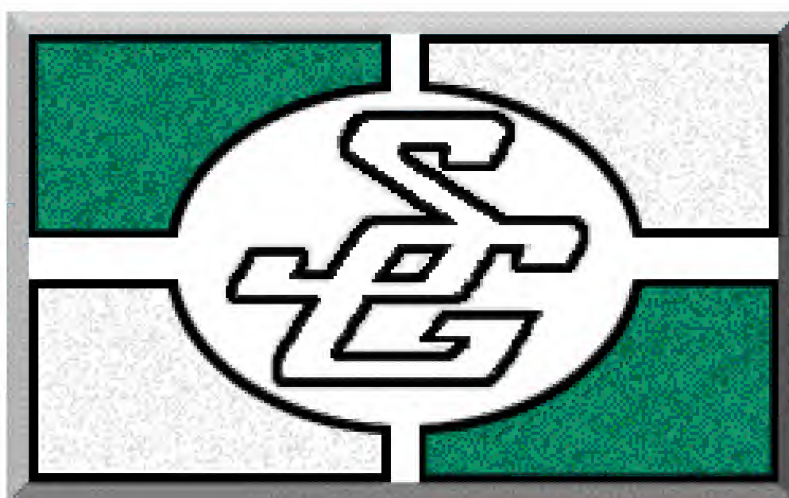
This tip is for those of you that use the GM Plug Puller. It pertains to the #8 metal screw that is threaded into the keyway before pulling the ignition lock out.

As most of you have found, there is a hardened piece on the face of most of these locks about 3/16" thick, which creates a problem when trying to thread the #8 screw into the keyway (i.e., stripping and breaking of screws).

What I do is by using an electric drill and a 3/16" diameter carbide tip masonry drill bit (or a carbide center-

drill). I drill into the keyway at a low RPM about 3/16" deep (or a little more) thereby making the hole diameter big enough and deep enough to reach the softer material under this hardened piece. This makes it easier to thread the screw into the keyway. After drilling the hole simply turn the screw and pull out the lock as you normally would with this puller. (I realize that drilling and pulling locks is not normal but used only in emergency situations.)

Another tip that I would like to share pertains to a self-threading screw which is called a Tek self threading screw. By using an electric drill a 1/4" adapter with a hex socket this screw will bore its own pilot hole and thread itself into moderate hard steel all in one shot.



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There will probably be many applications that you will find for these screws, but a couple that I use would be for installing alarms in cars, houses and commercial buildings. These screws can be purchased at any of your major hardware stores in various thread sizes and lengths. I might add that I have penetrated car bumpers very quickly and easily with these screws.

A. Heidemann  
Illinois

\*\*\*\*\*

This tip is on foreign car trunk locks, like Volvo. These locks have large wing nut type faces to turn after the key is inserted to open the trunk. I get a lot of calls where these locks will not lock anymore. In this case someone took a wrench and forced the wings to open the trunk. The side of the cylinder core always breaks since it is very small and made of soft metal.

To keep this from happening again, or having to buy another trunk lock, take the broken cylinder, place it in your vise, and drill  $\frac{1}{8}$ " deep through the back cylinder lip and through the back of the wings, (see illustration 2) then take two steel pins and drive them through the two holes you made. Remove any extra length of pins so the

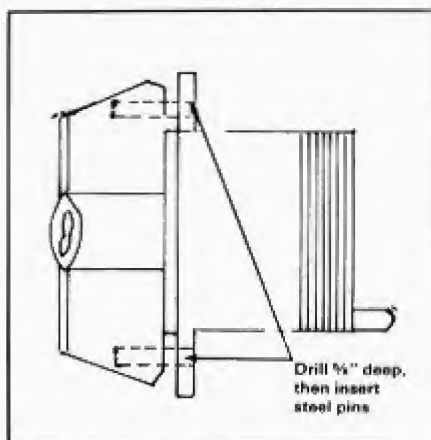


Illustration 2

lock will fit flush to the trunk of the car when reinstalled. This will make the lock three times stronger than the original lock. The wings will no longer turn. To open the trunk you will just turn the key—now the trunk will be locked automatically when it is closed. Your customer will not have to worry if the trunk is opened or locked.

Frank Markisello  
New York

\*\*\*\*\*

Weiser has recently introduced their new "X" series deadbolt lock which requires two holes to be drilled just above and below the  $1\frac{1}{2}$ " door hole, (6

and 12 o'clock position). These holes have to be lined up perfectly in order for the lock to fit and function properly. To be assured of a perfect fit, I took an old Weiser 9471L deadbolt and peeled off the cone-shaped face of the lock. Now measure down from the bottom and top of the back plate  $\frac{1}{8}$ " and drill two  $15/64$ " holes. You now have a jig which will give you a fast and perfect fit every time.

Mario Biondi  
Canada

\*\*\*\*\*

I have made a small holding vise to hold auto plugs for rekeying staking or repairing. (See illustration 3.)

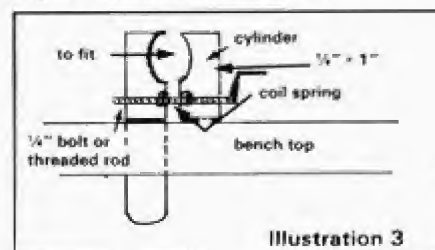


Illustration 3

I cut a hole in my workbench to hold the vise when in use. When not in use I remove the vise and store it out of the way.

Warren Burns  
Kentucky

\*\*\*\*\*

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# Newsmakers

New Products and Industry News

## Hampton Lock's New Portable Security Vault

The Lok Box™, measuring 2½" x 7½", is new from Hampton Lock Company. This patented box features the only double security lock box on the market. The upper padlock incorporates a modified shackle designed to go around door knobs, rods, etc. The inner compartment is covered with a sliding door including a 4 dial resettable combination lock.

There are numerous applications besides the obvious real estate market, such as construction gang boxes, executive hotel usage (will hold 5 credit cards), key control for home or office, latch key children, etc.



Circle 341 on Rapid Reply

## H-2 Utility Safe From Gardall Safe Corp.

Gardall Safe Corporation has recently reintroduced the model H-2 utility safe. This all steel unit measures: OD - 10"H x 11"W x 12¾"D and ID - 9¾"H x 10¾"W x 10¾"D.

Other specifications are 60 pound weight, cubic inch capacity 1120 cubic inches, and door size of ½" x 9" x 9".



A group II lock, dial and ring are standard on this safe along with an independent relocking system. The size of the safe makes it great for storage of small items in your closet, trunk of your auto, or any place where compact storage is required. It's original design was for use in RV motor homes.

Because of Gardall's program of interchangeable doors, the door of the H-2 will interchange with other safes in Gardall's safe product line.

Circle 342 on Rapid Reply

## Schlage Offers Residential Keyless Entry Lock

In January 1988, Schlage will introduce "Key N' Keyless"—it's breakthrough electronic residential "Key N' Keyless" allows for simultaneous entry of both a lock and deadbolt utilizing a personal access code. This new product eliminates the problem of lost keys and house lockouts forever.

The basis for Key N' Keyless is a heavy duty knob lockset featuring Schlage's traditional premium quality. The top of the lockset panel contains an identification and entry of a personal access code. There are 10,000 personal access code applications.



Circle 343 on Rapid Reply

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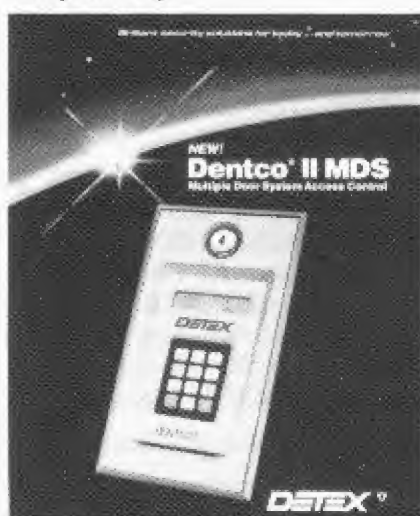
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## Detex's Free Brochure Describes Door System

A new brochure available from Detex Corporation details its Dentco II DS-1606 MDS Multiple Door Access Control System, new to the security market in 1988. Dentco II MDS lets users program advanced, flexible access control schedules for up to 32 doors from a single central location. Also, the system offers the ability to program each individual door independently.



Keypad and card access security units (door units) at each door control entrance by card, pushbutton, or a combination of both. A central processor, the "heart" of the system, programs singularly or in groups the entire network of door units and provides detailed information on each door. Interfaced with a parallel printer, the system can produce necessary detailed audit trails to record all door transactions as they occur.

Circle 332 on Rapid Reply

## Security Education Plus Offers Safe/Vault School

Security Education Plus is presenting Safe and Vault Lock School in Chicago at the O'hare Plaza Hotel, on January 8-10, 1988. Course #1, titled "Combination Lock Service, Installation, Changing and Troubleshooting Course" is a one day session on January 8.

Training will be on proper service techniques, installations, troubleshooting for minor malfunctions and the changing of combinations on 4 wheel bank vault locks, 3 and 4 wheel key change locks of U.L. Group I and Group II, delayed action timebination

locks, hand change locks with mesh change and hole change wheels. All tools necessary to perform your training will be furnished. Also you will receive a new class manual which will help you after the class is over. Upon completion of your training, you will receive a certificate of training, suitable for framing.

"Combination Lock Manipulation" is the subject of the second course, a two day session, January 9 and 10.

You will learn how to open safe combination locks without damage to the lock or container. Their knowledge on this subject and method of teaching helps assure success. They teach on 3 wheel and 4 wheel locks as they are furnished by the lock manufacturer. This complete two day course includes all the tools and equipment necessary to perform a successful manipulation of locked up safes. Also the locksmith will receive a class manual which will help after the class is over, and a certificate of training.

The instructors for both sessions will be Rex Parmelee and Paul DeMichele. For further information call Security Education Plus (606) 887-6027.

Circle 333 on Rapid Reply

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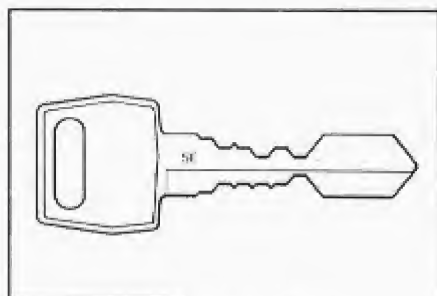


## Aero Lock Announces Ford Wafer Door Tryouts

Aero Lock is now producing the new tryout set #TO-40 for Ford wafer door locks. This 109 key set will enable you to quickly and easily open the car and/or fit the door portion of Ford's 10-wafer key without removing or impressing the door lock.

The set can be used alone, or in conjunction with Aero Lock set #TO-3 for Ford sidebar ignitions. Each key is numbered to correspond to set #TO-3, and a complete list of all possible actual door keys to match each tryout is included.

A special price is available to prior purchasers of set #TO-3, or when both sets are purchased together.



Circle 334 on Rapid Reply

## American Lock & Supply's Security Show '88 Scheduled

American Lock & Supply, Inc. announced that its 16th annual American Security Show '88 will be held again, at the Anaheim Marriott Hotel, Anaheim, CA on Sunday, March 20, 1988 (9:00 a.m. to 3:00 p.m.). The theme of the one-day event will be, "Your Partner for Success."

One hundred of American's security manufacturers will be displaying the new, useful, and creative locksmith tools, equipment and other security products: all selling at special day-of-the-show discounts.

Special attractions at the American Security Show '88 include management seminars, conducted by American's top corporate officers, which are designed to aid locksmiths in managing many phases of their business.

An All-American security store complete with gondolas, displays and signing aids, will be featured on the showroom floor.

A new products display area will highlight the latest and most creative new products in the locksmithing marketplace.

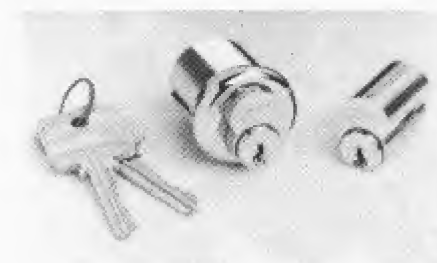
Circle 335 on Rapid Reply

## Medeco Introduces New Hotel Function Cores

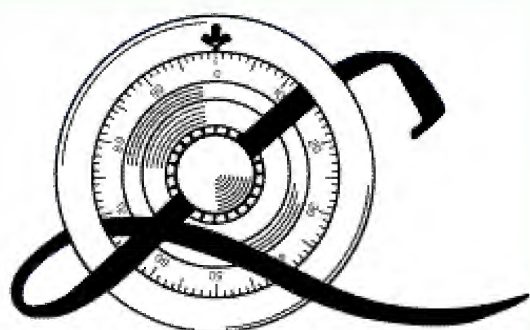
Medeco Security Locks, Inc., a high security lock manufacturer in Salem, Virginia, announces the availability of the new Hotel Function Interchangeable Core.

This new UL-listed lock cylinder, which provides pick and drill resistance, restricted key control and masterkeying capabilities, is manufactured in the patented Biaxial® lock design.

The Hotel Function Interchangeable Core feature allows hotels the convenience of quickly changing cylinders with a control key to maintain restricted access. It also allows guests' doors to be unlocked by service personnel, unless the interior bolt has been thrown.



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## Door Knob Adaptor From Lindustries, Inc.

A new lever handle that glows in the dark for children or sight impaired people and fits all standard door knobs to make opening doors a simple push motion instead of twisting, is available from Lindustries, Inc. of Weston, Massachusetts.

The Leveron® High-Glow Door Knob Lever Adaptor fits round or tulip knobs and converts them to simple levers which eliminate the twisting motion that can be difficult for the handicapped and small children. This new style glows in the dark, making it ideal for children, aging, or sight impaired people.

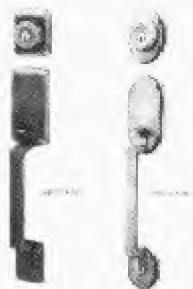


Circle 338 on Rapid Reply

## Kwikset Debuts Two New Handleset Designs

Kwikset Corporation announces the availability of two additional new design handlesets to its product line. The new Esquire and Jamaica join with the previously introduced Pilgrim design to give consumers an ever increasing selection of Kwikset Handleset designs that will complement any entrance design architecture from traditional to contemporary.

The new Esquire and Jamaica join the popular Farmington and Calypso designs in Kwikset's line of standard duty handlesets. Kwikset's standard duty handlesets combine three important features: elegant styling, deadlock security and an economical price.



Circle 340 on Rapid Reply

## DoorKing Develops Programmable Digital Lock

A new programmable digital lock has been developed by DoorKing of Inglewood, CA.

The Model 1506 provides the latest in electronic technology at an unmatched low price that varies only slightly with the number of four-digit entry codes required: 10, 50, 100, 250 or 1000-tenant memory. The advantage of having extra codes is when a tenant or maintenance firm changes, that combination can be erased.

The attractive, rain-tight steel cabinet has a stainless steel locking door and built-in hood lighting. The keypad is all-metal.



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## Schlage's New Key N' Keyless Lock

"Schlage Lock Company has unveiled a new electronic lock that allows simultaneous entry of both a knoblock and a deadbolt using a personal access code."

Schlage has just unveiled a breakthrough electronic residential lock that operates either with or without a key. Schlage's new "Key N' Keyless" allows for simultaneous entry of both a knoblock and a deadbolt using a personal access code. This new product is designed to eliminate the problem of lost keys, according to the manufacturer.

I had the opportunity recently of seeing and testing out the Key N' Keyless. I was surprised at how easily the knoblock and deadbolt operated using a changeable numeric code. But even more important, many safeguards have been built into the product, assuring

user safety. And the ease of operation will appeal to millions of homeowners, since this lock may help solve some problems for "latch key children." More on that later.

The basis for the Key N' Keyless is a heavy duty knob lockset. A small panel over the door knob contains an illuminated electronic display for correct identification and entry of a personal access code. Up to 10,000 different codes are possible. The personal access code is entered by turning the knob (either to the right or left) and pausing briefly as the correct numbers appear on the display. The lock can be easily used either in darkness or in full

daylight.

To conserve battery life, the lighted display turns off when not in use. When the correct numbers have been entered, a "U" appears on the display showing that the lock is unlocked. The door knob code system eliminates the need for an exterior keypad.

To fully appreciate this locking system, you need to understand that the deadbolt and knoblock are installed just like any other deadbolt and knoblock that the locksmith currently installs. There are no wires running between them. We have explained how the knoblock is unlocked by turning the knob and entering a personal access



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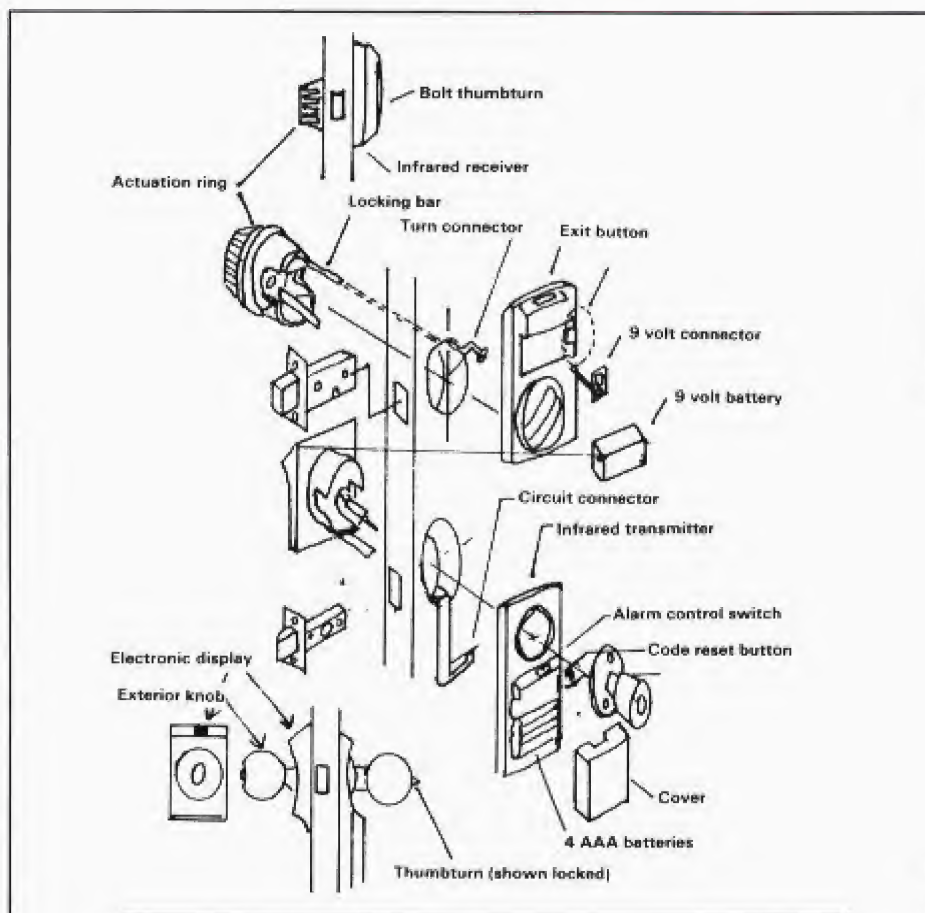
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code. But how does one open the deadbolt?

When the correct code is entered into the knoblock by turning the doorknob, the knoblock automatically unlocks itself. At the same time, the knoblock sends an invisible, wireless infrared signal to the deadbolt. Then the user simply turns the rotating security collar to retract the deadbolt. This same rotating collar can be used to extend the bolt to the locked position when leaving the premises. When the Key N' Keyless is in the locked position, the security collar around the deadbolt is completely free-spinning. This prevents wrenching and/or unauthorized retraction of the bolt.

For security purposes, the Key N' Keyless relocks immediately after operation. The user enters his code, retracts the deadbolt with the collar, and enters the house. He shuts the door, and the knoblock is in the locked position. Using the interior thumbturn, one can easily throw the bolt on the deadbolt. Because of this simple entry procedure, this lock offers an attractive solution to the problems of school age children returning home when other family members are working.



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This product also features a localized alarm option that gives pre-entry warning of any tampering with the lock or of multiple attempts to "break" the user code. The optional alarm can be set to the instant, delay, or off mode. The system also features a panic exit button on the inside of the lock, allowing for quick exit by simply retracting the deadbolt.

The lock is set up so that two personal access codes can be entered. Thus the need to hide keys outside or give them to neighbors is eliminated. The secondary access code can easily be changed. Therefore it is ideal to permit temporary access to tradesmen, babysitters, and others without having to give out keys. As an added measure of

assurance, all Key N' Keyless products feature a key override feature. That is why you will note key operated cylinders in the photo. The lock may be operated completely without the use of keys, however.

This lock works off of four AAA batteries and one 9 Volt battery that will last up to two years. A low battery warning feature advises when the battery levels drop to 25 percent. The key override will function even if there is no power supplied by the batteries.

It is important that the locksmith know that these locks install in minutes using standard door prep. The locks feature 100 percent solid state C-MOS electronic circuitry for reliable opera-

tion under all weather conditions. The lock may easily be used to retrofit, as a replacement for existing locks. The product is available in bright brass, chrome, and antique brass finishes using Schlage's, Bell, Georgian, and Orbit knob designs. The Key N' Keyless offers the locksmith an easy-to-install product that will provide the customer with security and convenience. The complete lock, deadbolt, and alarm kit has a suggested list of \$149. It will be available from your distributor.

For more information contact: Schlage, Key N' Keyless Dept., 2401 Bayshore Blvd., San Francisco, CA, (415) 467-1100.



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# Locksmith Distributor Profiles

"How well do you know your suppliers? This article is an attempt to better acquaint you with some of the wholesale companies serving locksmiths."

*In this article we present profiles on a number of distributors serving the locksmith field. Be aware that a more comprehensive list of distributors appears in the Distributor Digest section of the magazine. We will be profiling other distributors during the year.*

## Acme Security Systems

For over two decades Acme Security Systems has been directly involved with electronic security. During that time, the locksmith division has installed the electronic locking hardware for the card access companies in their area. That experience has given them the technical knowledge to help solve installation problems.



Acme can be contacted at 1922 Republic Ave., San Leandro, CA 94577-4220, or phone (800) 343-2263 (Nat'l) or (800) 252-2263 (inside CA).

Circle 267 on Rapid Reply

## American Lock & Supply

At the turn of the year, American opened its fourth "satellite" warehouse in Seattle, WA. Shortly after, a new 28,000 square-foot office and warehouse structure debuted at the Anaheim headquarters. During the summer, the Fremont, CA branch doubled its size when it moved to another location. These facility additions swelled American's total warehouse and office space to 110,000

square feet.

The dynamic increases in sales and inventory provide a solid foundation which will enable American to reach its future growth and expansion goals. President Sean DeForrest says that the lock and door hardware distributor will open three new branches within the next five years "to effectively serve at least half the United States." A branch opened in Denver this past July.

"More branches are important," he said, "because they enable us to be able to pass on industry information, trends and new ideas, which we have gathered or learned from our manufacturers and customers, to many more people, not just a handful."

DeForrest adds, "Many warehouses give a distributor an important advantage over a more localized wholesaler. Because of the variation in products carried by each of the "satellite" branches, the customer is given a much broader selection of inventories from which to draw.

"Business is personal," says Vice-President of Sales Bill Power, explaining American's philosophy of having a large sales staff. "With our low turnover rate and regular visit cycles, we are able to develop long-standing professional relationships with our customers, extremely important here at American Lock & Supply."

American Lock & Supply, 4411 E. LaPalma Ave., Anaheim, CA 92807, (714) 996-8882, (213) 585-0224, (800) 854-8775 (Nat'l).

Circle 266 on Rapid Reply

## Aristo Sales Co., Inc.

The company was founded in 1922 by Julius Rosenblatt as an automotive aftermarket distributor. In 1946, Stan Rosenblatt joined his father and expanded the lines to include locksmith products, such as Master, American, Arrow, Briggs & Stratton and All Lock. Over the years, Aristo has continued to be specialists in the automo-

tive security field, foreign and domestic, along with a complete line of locksmith supplies. The customer base served includes metropolitan New York and around the country.



Aristo is located at 27-24 Jackson Ave., Long Island City, NY 11101. Their phone numbers are: (718) 361-1040, 1041, 1064, and Wats outside NY (800) 221-1322.

Circle 265 on Rapid Reply

## DiMark International

Located between San Francisco and Los Angeles, out of the hubbub of big-city life, in a converted corporate aircraft hangar, is the home of DiMark International. This out-of-the way location shouldn't fool anyone though, because their customers come from "sea to sea," from Puerto Rico to Alaska, and even further away in Japan, Europe, and the Middle East.

In the beginning there were only Borkey key machines in the DiMark warehouse. The quality of those machines, though, would change the way that locksmiths would judge (and buy) key machines for years to come. With the channels open to importing, DiMark soon expanded their lines to include high-quality security boxes from Burg-Wachter, locks from Zeiss Ikon, and quality good tools from several sources in Europe.

In recent years they have added many more lines, both domestic and



imported. Today, if you need antique-style furniture locks, hard-to-find bit keys, first quality key identifiers and tags, replacement locks for European cases, or key blanks for imported equipment locks, DiMark is a good source. They specialize in finding those items that are hard-to-find, competitively designed, or not available through other suppliers.

Quality, value, and customers' needs are all criteria for including new products. As a result, DiMark also sells the products of many American manufacturers like All-Lock, Lab, LuckyLine, Valley Forge, Redi-Line, Framon, Major Metalfab, ESP, and many others.

The latest DiMark catalog, Number 9, shows clearly what products they stock and includes a complete price list. You will find that their inventory is very complete, but when they are out-of-stock, their back-order policy is simple, guaranteeing personal attention to the customer's requirements with minimum hassles.

It can take as long as five months from the time of placing an order for a shipment to come from Europe or the Far East. And, as all salesmen know,

sales volume can vary greatly over that length of time. Many businesses can afford to keep inventories low, because delivery is just a day or two away. At DiMark that is an impossible plan of action, so the most careful attention is given to inventory control. Given all the variables, goods from out of the country are usually in good supply at DiMark and there are only occasional delays in delivery.

There are toll-free lines from everywhere in the U.S., generous prepaid freight limits, and a low (\$25.00) minimum order.

Mark and Diane Pirman, owners and managers, together had nearly 40 years of locksmithing experience when they recently retired from the retail trade to care exclusively for DiMark International. It started out "locksmith to locksmith" in 1974, and they say they plan to keep it that way.

California customers can call toll-free (800) 225-7994. Other U.S. customers can call at (800) 235-2435. DiMark's new Fax number is (805) 928-8034. Their mailing address is: DiMark International, 3233 Skyway Dr./Corp. Hgr. 3D, Santa Maria, CA 93455.

## Fried Brothers, Inc.

Fried Brothers, Inc., has introduced a new buyer's program for locksmiths and decorative hardware dealers to become stocking dealers of the Baldwin Hardware Line.

The program offers the locksmith shop the opportunity to become a stocking Baldwin dealer and to purchase Baldwin at factory discounts without too much financial outlay. Fried Brother offers competitive pricing to the locksmith.

The company is located at 467 North 7th St., Philadelphia, PA 19123. The national phone number is (800) 523-2924 or call (800) 356-5050 inside Pennsylvania.

Circle 251 on Rapid Reply

## Hardware Suppliers of America, Inc.

HSI has four branch locations to serve the locksmiths wholesale hardware needs with same day or next day shipping (in most cases). They offer master keying and construction master keying services and stock complete lines of Schlage, Dexter, and Simplex. HSI is also a source for Baldwin, Von



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## Hardware Suppliers of America

*Continued from page 23*

Duprin, Rixson-Firemark, Hager/McKinney hinges, Norton Ives and Medeco. A free catalog is available.

Here are the toll free numbers for the four branches. North Carolina: Dist. Sales Manager, Kathy Hunnings, NC (800) 682-5625, Out of NC (800) 334-5625. Georgia: Dist. Sales Manager, Dean Hightower, AHC, GA (800) 551-1812, Out of GA (800) 358-6016. Texas: Dist. Sales Manager, Don Thomas, TX (800) 442-4496, Out of TX (800) 527-5625. Florida: Dist. Sales Manager, Don Case, FL (800) 282-8499, Out of FL (800) 237-8770. If you have any questions, please feel free to call.

Circle 252 on Rapid Reply

### Instant Hardware Delivery

Instant Hardware Delivery is a nationwide, high-speed wholesaler of Schlage and Von Duprin locks and lock parts. IHD's high-tech computer response system gets deliveries on the way as soon as orders are received at the firm's processing center. Approved credit accounts require no order forms and accumulate no COD charges. Cus-

tomers order from handy product spec sheets or from a catalog.

Operations Manager Jayme Wilburn says, "We frequently have locks and lock parts in inventory even when the manufacturer is unable to make delivery." Wilburn presides over 9,000 square feet of warehouse space, which is filled with Schlage and Von Duprin products.

IHD was organized in 1984 by a group of highly experienced hardware professionals. Persons to contact when placing orders are Kenneth Domurot or Mike DiGiovanni. Both can be reached at (800) 437-5832; or (800) 492-6805 in Maryland, 12321B Wilkins Ave., Rockville, MD 20852.

Circle 253 on Rapid Reply

### JLM Wholesale

Dave Mirku has been involved in locksmithing for years. His grandfather started the family lockshop back in 1918. The business continued through the generations to where Dave, with his wife Jan, started JLM Wholesale in 1984 up in Lake Orion, Michigan.

Dave started Electronic Security Systems back in 1970. To continue in

the electronic full service business, JLM Wholesale was then formed to specialize in the distribution of Folger Adam, LCN Closer, Security Engineering and Von Duprin electronic products. Because they specialize in these lines, their pricing can be more competitive.

JLM will also help the locksmith design systems as needed. Also, parts are available to service all Folger Adam repairs. They can be reached at (800) 522-2940 (outside Michigan) or (313) 526-2940 (in Detroit). Their local number is (313) 693-1924.

JLM Wholesale is a national distributor and they offer immediate delivery because all products are in stock on their shelves. Along with Dave and Jan, Ray Baldwin is available to answer any questions and will send catalogs at request. JLM is located at 2469 W. Predmore, Lake Orion, MI 48035.

Circle 254 on Rapid Reply

### The Key Connection

The Key Connection opened for business in 1985 with the belief that competitive prices and excellent service

*Continued on page 54*

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## Servicing The New BMW

"The man asked us to rekey a BMW lock. No problem, we said. We were surprised when the key turned out to be a new 'sidewinder' type. But it was easy."



Send your lock and key questions to Jack Roberts, The National Locksmith, 698 Bonded Parkway, Streamwood, IL 60107.

by Jack Roberts

Constant change seems to be the most prevalent thing in our industry and is probably the most interesting part of our daily activities. Hardly a day goes by in any lockshop without seeing something new or being presented with a new challenge and many of us meet each day with just such an expectation. When the BMW parts deliveryman came in our shop, plopped a

Beemer delivery bag on the counter, waved a key in the air, and said, "They want this one keyed to this key." I said, without so much as looking up from my work, "OK, be ready this afternoon; pick 'er up on your next trip."

We service three BMW dealers in our area and recombining cylinders is a regular occurrence which is almost as common as cutting a Y-11 key. Through the years we have built our own service kit for Beemers by saving parts from old locks and cylinders and the dealers have been most helpful and cooperative in supplying us with those items which they have had to replace. We have never developed the skill of reading a BMW key and then placing

the correct wafers in the plug, but our procedure is rather straight-forward and really takes only a couple of minutes to accomplish.

There are just four depths of wafers used on these cars, and they are stamped with the numbers 1 through 4. These are double-sided plugs with four wafers and springs on each side (five on the newer deadlocking design). When recombining a plug we insert the target key and read the wafers on one side.

It doesn't make any difference which side and many times it is just as easy to alternate from one to the other as rekeying progresses from tip to bow. For purposes of explanation we will

*Continued on page 39*

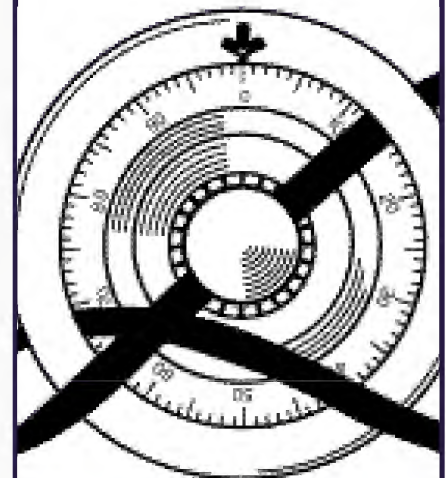
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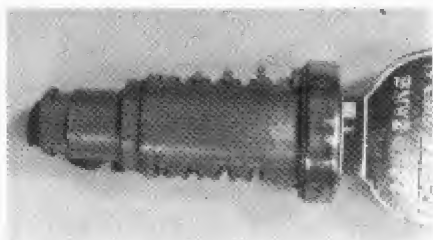


consider only one side of the plug in the description of our procedure.

First, we are only interested in those wafers which have springs on this side (every other one, alternating). Second, we look at the shear line of the last wafer (tip end). If it is at the shear line, it is OK. If it's above the shear line we back the target key out just enough to remove the wafer, check the number and insert a higher numbered wafer, push the key back in and check the shear line again. If it meets the shear line, it is OK and we proceed to the next wafer.

We have a very simple reminder on the lid of the service kit. "Up is up and down is down." This means that if a wafer is above the shear line, replace it with a higher number; if it is below the shear line, replace it with a lower number. Practice makes it pretty easy to determine just how much *up* or how much *down* and the guessing game becomes one of skill. If a wafer is only slightly above the shear line, and it is a number three, then there is only one choice. Replace it with a number four. In like manner, if the wafer is below the shear line, say more than just a smidgen, and it is a number three, the logical choice would be a number one.

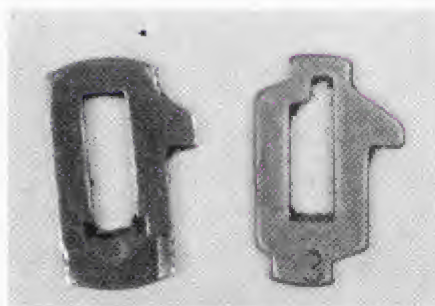
Since there are only four depths and biting drop is about .022, it doesn't take long to develop a trained eye for the correct amount of change, either up or down. In photograph one we have placed a blank key in the plug with wafers 1,2,3 and 4 from the tip to show the relative differences in the depths.



1. Blank key inserted in plug.

Progression in this manner from tip to bow on one side, and then using the same procedure on the other side completes the recombining in a very short time. As mentioned previously, we usually alternate from one side to the other as we progress through the plug. Note here that we are gauging (eyeballing) each wafer from the spring side of the plug and from tip to bow.

The wafers for the deadlock design are slightly different than the regular wafers (see photograph 2), but the depths are numbered the same way. There are two of these on each side of



2. Deadlock design wafers vs. regular wafers.

the plug starting from the tip end and then three regular wafers. If regular wafers are inserted in the deadlock chambers, the lock will function normally but the deadlock feature will be inoperative. BMW wafers slide easily out of the chambers so a finger must be kept on the lower side as the plug is

turned over to keep from spilling those wafers and springs.

Anyway, getting back to the subject cylinder, I was totally surprised when I picked it up to do a "quick change" and noticed that the target key was a "sidewinder." My first thought was that they had sent the wrong key. But right there on that big black head was the BMW logo. We had known for some time that this was coming but sure didn't expect it to be in such a subtle manner as, "They want this one changed to fit this key!"

The parts guys were on our side, however, because inside the delivery bag with the door cylinder was another bag labeled "1 Stueck." (BMW Part #51 21 1 974 032.) I don't know what a Stueck is, but the bag contained a sidewinder plug, two bags of wafers, a



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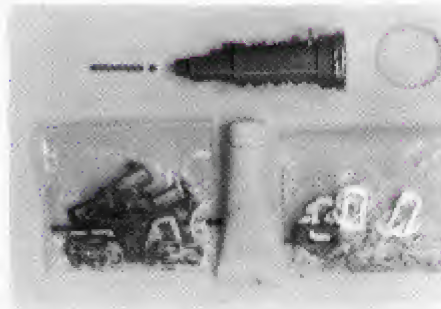


bag of wafer springs, a tube of lubricant, a small coil spring and a very tiny ball bearing. (See photograph 3.) That little ball will sure be nice to have and will save a lot of crawling around time trying to locate the one that shoots out of the cylinder when the plug is removed too quickly. Since this is similar to the "Mercedes Missile" maybe it should be called the "Beemer Bullet."

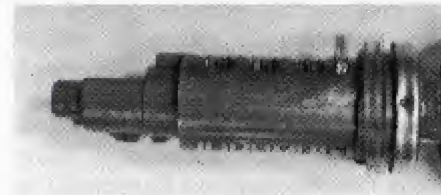
Examination of the plug and wafers revealed that there are 12 wafers in the "sidewinder" and they are arranged in pairs in six chambers on each side of the plug. (See photograph 4.) The plug has the same diameter as the standard BMW plug, 0.586, and appears identical except for the extra length and the shape of the cam shaft. (See photograph 5.)

As with the standard cylinder, there are four depths of wafers, but with the "sidewinder" there are lefts and rights. (See photograph 6.) An 11 is left one, a 12 is left two, etc. A 21 is right one, a 22 is right two, etc. The wafers are almost identical in size and have the same appearance as the regular BMW wafers. Photograph six also shows a regular 1, a left 1 (11) and a right 1 (21).

The biting depths appeared to be identical to the known BMW depths so

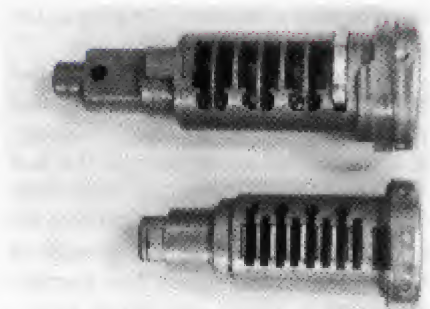


3. Parts included in delivery bag, "1 Stueck."



4. Sidewinder wafer arrangement.

we used the same recombining procedure that is outlined for the regular plugs. Each chamber contains two wafers, a left and a right, but not necessarily of the same depth. A chamber, for instance, might have a 12 and a 23 (left two and right three). The scientific formula "up is up and down is down" works exactly the same as described, and we had the new plug



5. Sidewinder plug vs. standard BMW plug.



6. Left and right wafers.

changed to the target key in just a few minutes. From there it was just a matter of removing the old plug from the cylinder and inserting the new one.

As this article is being prepared we have no official knowledge as to which is actually left and right when considering the one's and two's stamped on the wafers. We made an educated guess and used the boss on the top of the plug



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7. Pointer indicates the boss on the plug.

(see photograph 7) as a reference point for 1's, (lefts) and the other side for 2's, (rights). I'll stand corrected if we guessed wrong on which is left and which is right, but if it works, don't knock it.

This new lock is a Huf product and is built to their exacting standards. We have been informed that this lock will appear on the 1988 BMW 735's and 750's. The numbers may also be suffixed with the letter "L." I am sure that we in the industry will be referring to this lock as a "double sidewinder" but BMW simply refers to it as "high security." They also told us that each key has 12,000 laser cuts, that blanks are not available, that keys cannot be duplicated anywhere except at the factory and

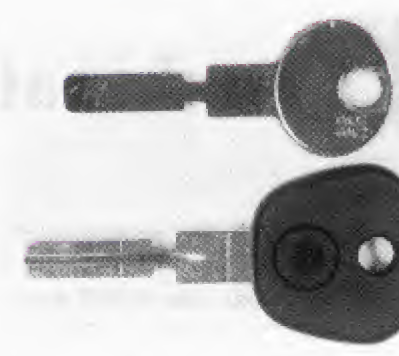


8. Mercedes blank made into a working key.

that delivery of a new key will take about 8 weeks.

Naturally none of us like to be told that we can't do something, so we called on Dave Sohngen, the Mr. of Mr. Lock Locksmiths, and asked him to put his Ten machine to work on this one. Dave used a Mercedes blank, (Silca HU 39P) and had an operating key in about five minutes. (See photograph 8.)

We then called our local HPC distributor and asked him about the possibility at some future date of new blanks for the BMW. He said that he had them ordered and expected delivery in about 30 days. An hour later he called to say



9. New BMW blanks, Silca HU 58AB and HU 59.

that the blanks had just been delivered and are HPC/Silca HU 58AP, master, (rubber head) and the HU 59, valet, (plain head). (See photograph 9.)

Note that the master has a groove down each side whereas the valet does not have the groove which prevents it from being inserted into the trunk and glove box locks. There is a slight difference in the Mercedes HU 39P and the BMW HU 58AP. The blade of the HU 39P measures  $0.296 \times 0.118$  and the HU 58AP is  $0.286 \times 0.135$  but as described above an operating key can be duplicated in an emergency situation by using the HU 39P blank.

*Continued on page 68*



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# Combination Changing Procedures

"S&G and La Gard locks of the series we will examine in this article do not have 'forbidden zones.' You can select any number as part of the combination."

by Calvin Stafford

*The author is an expert safeman. He is also a consultant to Security Education Plus, a school dedicated to educating locksmiths about safes. This article contains several techniques that allow the technician to get the most from a combination lock.*

On all models of the Sargent & Greenleaf R-6700 series locks and the La Gard 3330RL series key change type locks, the drive cam has the "4-position" mounting feature that allows you to select where the lock will open.

On Sargent & Greenleaf and La Gard locks of this series, you can select any number of the dial as part of the

combination which complies with the Underwriters standard U.L. 768. This means that you have a choice of 100 numbers on each wheel, for a total selection of 1,000,000 possibilities, or 3 to the third power.

Sargent & Greenleaf and La Gard combination locks of this series do not have a "Forbidden Zone" as referred to in the trade magazines.

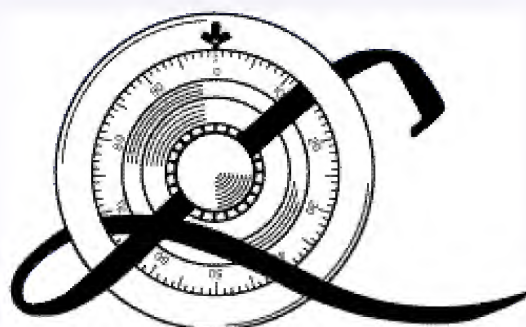
When we design a combination lock, we take into consideration the needs of safemakers, installers, locksmiths, and most important, the person who must operate it.

We ask ourselves such questions as: What part does the lock play in the locking or unlocking of the safe? Does

the lock provide a blocking function or a locking function? In what position will the lock be mounted on the safe lock mounting plate? What will the distance be from the door to the front of the lock mounting plate?

For the remainder of this article, we will concentrate on only 3 wheel key change locks. When it comes time to establish the operating combination, the user must first know how to open the lock once the combination has been properly dialed.

In the family of combination locks, there are 6 different ways to open the lock after the combination has been properly dialed: 1. Turn the dial right to open. 2. Turn the dial left to open.



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3. Turn the dial right to "0," depress the dial and continue to turn the dial right to open. 4. Turn the dial right to "0," turn the butterfly in the center of the dial right 90 degrees and then continue to the right to open. 5. Turn the dial right to "0," depress and release the dial and then continue right to open. 6. Turn the dial right to "0," pull the dial out to stop, and continue to the right to open.

The Sargent & Greenleaf and La Gard key change models have a "4-position" drive cam that allows the installer the ability to coordinate the opening area of the lock in relation to the mounting position of the lock. Tradition has established that Sargent & Greenleaf and La Gard locks of this series open between 5 and 15 once the combination has been dialed. This is to prevent interference of the drive pin on the drive cam pushing against the fly of #3 wheel, causing the gate of #3 wheel to block the exit of the fence during the locking of the lock. It is called a "lock-in" and will cause you to remove the back cover and manually lift the fence out of the wheel gate.

Since the incorporation of the "4-position" drive cam into these locks, all 100 numbers of the dial can be used on

each of the 3 wheels, regardless of where the numbers are.

To make this possible, we established our spindle of the dial to be slotted at "50" and slotted the drive cam in 4 different places for the 4 different mounting positions that safemakers use in the design of their safes. This would assure the safemaker that no matter how they mounted the lock to the door, with the "4-position" drive cam, they would always have the traditional opening area of 5 to 15 which would agree with the instruction sheet to operate and change combinations.

If the lock is mounted right hand and you install the spline key into the drive cam in the: RH Slot, the opening area will be between 05 and 15; LH Slot, the opening area will be between 55 and 65; VD Slot, the opening area will be between 80 and 90; VU Slot, the opening area will be between 30 and 40.

If the lock is mounted left hand and you install the spline key into the drive cam in the: LH Slot, the opening area will be between 05 and 15; RH Slot, the opening area will be between 55 and 65; VU Slot, the opening area will be between 80 and 90; VD Slot, the opening area will be between 30 and 40.

If the lock is mounted vertical down

and you install the spline key into the drive cam in the: VD Slot, the opening area will be between 05 and 15; VU Slot, the opening area will be between 55 and 65; LH Slot, the opening area will be between 80 and 90; RH Slot, the opening area will be between 30 and 40.

If the lock is mounted vertical up and you install the spline key into the drive cam in the: VU Slot, the opening area will be between 05 and 15; VD Slot, the opening area will be between 55 and 65; RH Slot, the opening area will be between 80 and 90; LH Slot, the opening area will be between 30 and 40.

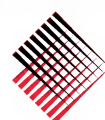
Before we proceed further, you must understand that a combination lock of this series has 3 stages of operation.

1. Dialing the combination to position the wheel gates to the fence of the drop lever.
2. Causing the fence to enter the wheel gates by using one of the six opening procedures shown earlier.
3. Retracting the bolt.

To utilize all 100 numbers on each wheel, you first must know where the lock will open in stage two.

To locate the opening area of the drive cam: 1. Turn the dial 5 times left to "60". 2. Turn the dial right slowly anticipating the collision of the nose of

*Continued on page 68*



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## Safe Work Can Be Deadly

"The narcotics undercover people really fake me out. Usually the scummy looking degenerate type guy turns out to be my police contact at the scene."

by Carl Cloud

*Carl Cloud has specialized in safe work for the last 16 years and has taught classes for various west coast locksmith associations. This year, he will teach a class "Safe Opening Theory" at the A.L.O.A. Convention in Las Vegas. Through his company, Learning Unlimited, he has developed "Drill Points," a safe opening technique using safe lock drill templates.*

The next safe you open may be your last—the last thing you'll ever do.

I was lucky, very lucky. The safe was rigged with high explosives. Enough that I probably wouldn't have known what happened. A motion detector was ready to prime the charge. All that was

needed was a sharp blow or an abrupt movement to activate total destruction and instant death.

There is no honor among thieves. In these days of high drug traffic and millions in illegal dollars, the drug peddler is constantly looking over his shoulder. His concern isn't only from the police or narcotic undercover squads, but those laying in wait from his own trade. Drug dealers ripping off other drug dealers is also big business. Pick up any newspaper and read of gang style killings. These people have few scruples for life or death in securing their illicit practice.

"San Diego Lock and Safe Services" has been called upon by numerous

police agencies for various work over the past years. Recently, the need to have safes opened has been prominent. This type of call is sometimes placed by the police burglary division, looking for stolen goods. A high rate of these calls for service are now coming from the Narcotic Task Force (NTF).

If there is to be a drug raid or a "bust," and a safe is known to be at the location, we are usually notified by the Drug Enforcement Agency (DEA) to "stand by." For example, this may be a call asking us to be available between the hours of seven and eleven o'clock. In these cases, we are called to the scene only minutes after the raid has been conducted. Suspects are being hand-



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cuffed and searched, the house or building is filtered for drugs, money and weapons. There is a flurry of activity, like an easter egg hunt, to find hidden caches of evidence.

If a safe is found during a raid, the call is like any other emergency. "We have a locked safe and we need it opened now!" Often, the contents of the safe may be the only grounds for conviction or arrest of the suspect. If you don't work well under pressure, this may not be your cup of tea. I have had as many as eight officers pull up chairs, waiting with anticipation while looking over my shoulder as I worked to open a safe.

Your arrival upon the scene is heralded by one group (the NTF) and frowned upon by the other (the bad guys). This is not the time for publicity or passing out of business cards. I do not make my identity or my shop name known, especially to those who were found with a shotgun stashed in each room of the house.

Most of the "emergency" calls occur during the evening. I don't mind working at night, but it can make for a long day. On the other hand, the NTF never asks for a price quote. The only information you may have from the dis-

patcher, is to open a safe at a certain address. What type or brand of safe is normally saved as a surprise.

Most drug dealers, are uneducated in the worthiness of safes. You may find a very inexpensive fire resistant safe holding more money than you'll earn in a lifetime! In these cases, your opening job is fast and simple. The NTF boys are impressed and think you are the reincarnation of "Houdini."

You will be confronted with money chests. Some so old that you can't identify. And some very new with TL labels or even imported jewelers' safes. The range of safe security used by these people is really astonishing. If you accept a call for this type of work, you must be prepared to tackle any type or brand of safe.

It was early afternoon on a warm sunny day in San Diego. I had just completed servicing a vault safe lock when my pager sounded off. The digital read-out was a series of eights, a code which indicated that I had an emergency call waiting. I telephoned the shop and my partner "Mary," informed me of a call from the police dispatch. The Narcotic Task Force was on a raid and needed a safe opened.

I drove past the address of the job. It

was a newer house in an older residential neighborhood. There was no sign of activity. The door was closed and the curtains drawn. No cars were in the driveway. I checked my notes again to be sure of the address. The house was near the corner of the street, so I drove to the corner and turned right to the alley which ran behind the house. There they were!

I drove down the alley weaving between various types of parked police vehicles and stopped across from the fenced rear yard of the house. A six foot high wire gate protected the driveway leading into a large two-car garage.

There were about fifteen people milling around the garage area. Only a couple were in uniform. Every time I come to one of these jobs, it reminds me of the old television show "Whats My Line?" Three contestants all claim to be the same person with a specific occupation. The panel has to figure out which ones are lying and who is the actual person. I sat in my truck for a few seconds looking at the group of people and thinking, will the real "good guys" please stand up! The narcotic undercover people really fake me out

*Continued on page 51*

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every time. The one raunchy looking character who I'm sure is one of the peddlers, turns out to be my contact, the officer in charge.

As I was walking through the gate to the garage, I watched an officer pry open a small insulated key locking chest. From the expressions of those looking into the chest, it was either empty or didn't have what they were hoping to find.

My contact led me into the garage to an old record safe. It was about thirty inches high and two feet square. It had a stubby "T" handle and large brass dial. The safe had many layers of paint and there were no name labels to be found. It had the characteristics of an old Hall safe.

I don't have too much concern as to the manufacturer of a locked safe. My job is to open the lock. Once this is accomplished the rest of locking mechanism, no matter who made or designed it, will open.

I determined the type of lock by applying a turning pressure to the handle and turning the dial. The dial would be bound by the handle pressure and then would be free in increments of about every ten number around the dial. This indicated that the drive wheel had notches or false gates and the fence was moved into the wheel pack by the turning of the handle. This old lock is similar in operation to a Sentry designed lock where the fence enters the wheel gates at the nine o'clock position.

The men of the narcotic squad don't care how the safe is opened. It is of no concern to them if the safe is completely mutilated and ruined. (Like the small chest that was pried open.) I'm sure that they appreciate seeing a safe opening in a professional manner and with a touch of craftsmanship. At the same time, they certainly won't be appalled if you take out a hammer for a "minor adjustment" to expedite the opening.

My theory for opening safes is passed on in every class that I teach; if it works, don't break it! In a simple safe opening of a lost or unknown combination, there is virtually no reason to pound, pry, force, chop or punch. If the penetration and opening is done correctly, the safe and the original lock could be put back into working order.

My entry into the safe lock was by drilling a  $\frac{3}{8}$ " hole through the dial right at 14. The drill was angled slightly downward and toward the center of the dial. The hole entered the lock case right at the edge of the wheel pack. I

could see the edges of all three wheels and the drive wheel. I ran the wheel gates and the drive wheel gate to the center of the drilled hole. I knew that the fence entered at the nine o'clock position. A piece of masking tape was stuck on the dial ring at this location and an index line penciled in.

I ran the found combination from my drilled hole to the drawn index line and pulled the handle. Nothing happened. I drew a second index line, one number below the first. I ran the combination to this line and tugged on the handle. It didn't open. I drew a third

line, again one number below the last line. The combination was run again and again and still the safe didn't open. A group of officers had gathered around the safe, sensing that I must be close to getting it open. This time I drew a line above my original index line. I ran the combination to my new line and yanked on the handle. A heavy "ka-thunk" sounded as the locking bolts retracted.

A rousing cheer of confidence rose from those who had gathered close around me as the safe door swung open. Just as quickly, in unison, dis-

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grunted groans as it became apparent that there was a second door behind the first.

Many of the old safes were equipped with a second light gauge steel door. This allowed the business owner to leave the outer safe door unlocked or even standing open during the day. Since the owner or employees never left the unlocked safe unguarded, the key operated inner door was adequate day-time security.

The nose of the lock on the inner door was about the size of nickel. It was obviously a small lever lock operated with a flat steel key. My truck is equipped strictly for safe work and is not stocked with key blanks, so I couldn't impression a key to the lock. I have not been very successful in picking lever locks. My first solution (breaking one of my own set rules) was to punch the lock through, knocking it off of the door. I was fingering the handle of my hammer, contemplating the above method of attack, when one of the officers said "wait." He remembered seeing some keys on one of the suspects. In a few moments, he came running back from a police car where the prisoners were being held. On a ring with many other keys, was one flat

steel key.

The officer inserted and turned the key. It worked! The door was partially open when the officer suddenly jumped back away from the safe.

The safe was rigged with a bomb. It wasn't designed to explode if the safe was opened with normal care. Its motion device would only activate if the safe was abused; a sharp jolt while moving, prying and hammering on the door. I'm sure that the original intent was not to kill me, or even the police officers there. It was designed to serve as a final punishment for anyone in the "trade" who might consider ripping off his brother peddler.

When the bomb was found, the air of the situation suddenly changed. The chit-chat conversations which filled the background stopped. It was as if everyone was taking a moment to meditate, to evaluate their lives, to ponder what could have just happened. The silence was broken by a police radio, the bomb squad was on its way.

The drug dealers in the police cars, a safe distance away, watched these proceedings from the start and said nothing. They gave no warning. Those who peddle and inject their lethal poison into the veins of society, have no

passion or guilt while watching from a front row seat, as death points its bony finger.

The bomb, an ominous looking black box, was about the size of a half carton of cigarettes. It was placed on the right wall and to the front of the safe. It appeared to be wrapped in a black material, maybe electrical tape. The entire box was sealed with a heavy layer of a waxy substance. A pig tail wire, resembling a telephone cord, emerged from one end of the box. The cord ran to the inner door surface where it was held in place by a disk magnet. A very simple device, obviously homemade, but made with the intent to kill.

What will I do the next time I am called under these circumstances? The bomb squad offered one solution. Ask that an explosive sniffing dog be brought to the location. They have dogs that are trained to sniff out narcotics. They do an exceptional job finding dope that has been hidden by the most ingenious methods. The same is true for explosives. The prime use of these specially trained dogs is for bomb scares aboard airplanes and in public buildings.

*Continued on page 54*

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## The Key Connection

*Continued from page 26*

were possible. The company has grown rapidly in the specialty automotive lock field stocking the full line of Briggs & Stratton (American), Valley Forge and Auto Security (foreign) along with Star, Guard, Valentine Lock and Pacific Safe.

Key Connection stocks many hard-to-find auto locks (including 1938 GM in the original boxes).

In order to keep track of all the parts in inventory, the company utilizes a state-of-the-art IBM S36 computer with a full time data-processing staff. Plans are currently being developed to enable the computer system to provide locksmiths with the following information: The most popular American and foreign auto locks in your area, and assisting you in deciding upon, based on past and present sales, the correct quantities to purchase. Computers also automatically update and ship, upon request, the newest locks and keys as they become available, and provide you with the newest tricks of the trade as they become available.

New products such as the SST-I (the Ford 10 tumbler ignition tool) go through extensive testing for quality, value, and availability before they are advertised nationwide.

The Key Connection uses an automated UPS approved computerized manifest system which ensures that orders are accurately weighed and costed and that, should it be necessary, are traced to the exact date and time of shipment.



A well informed staff can answer virtually any question over the telephone regarding auto locks and if a question arises that they cannot resolve will call the manufacturer directly in order to obtain an answer quickly for the customer (at no additional charge). Some key personnel are: Art Schwartz, President; Steve Rykoff, DP Manager; Mike Penso, Shipping Manager; Mindy Cohen, Office Mgr./Book-

keeper; Ken Shimko, Warehouse Mgr.

The Key Connection is located at 1932 NE 151st St., N. Miami, FL 33162, (800) 237-8446, (305) 949-2783.

Circle 255 on Rapid Reply

## Mutual Screw & Supply

"Only in America", Harry Migdal (now deceased) said to his son Herb when they started Mutual Screw and Supply in 1947. "Only in America" could we have done this." This being half of a 1,500 square foot store and basement in the area of New York now known as Soho, with capital being raised by borrowing against Harry's life insurance policy.

Today, Mutual owns and operates a 36,000 square foot warehouse in Northern New Jersey, specializing in a full range of security fasteners. In addition to security fasteners, Mutual distributes a complete line of packaged and bulk fasteners such as tapping screws, machine screws, wood screws, self-drilling screws, bolts, nuts, washers, all types of plastic and metal anchoring devices, insert bits and drivers, and wire goods.

The company sells nationally and internationally through direct factory salesmen, and sales representatives in the field.

Herbert Migdal is president and C.E.O.; Mark Warner is vice pres., and general mgr.; Robert Garfinkel is international sales mgr.

Full catalogs and price lists are available on security and standard fasteners upon request. Customers include federal, state, and local government agencies, housing authorities, the Armed Forces, and correctional institutions.

The phone numbers are as follows: Fax (201) 845-5781; local (201) 845-5700; Wats Line (800) 222-0324. The address is Mutual Screw & Supply, 68 West Passaic St., Rochelle Park, NJ 07662.

Circle 256 on Rapid Reply

## J. Nathan Hardware Specialties, Inc.

J. Nathan Hardware Specialties, Inc. has been serving the trade for the past seven years, supplying commercial, residential and industrial hardware. They are stocking distributors of over 100 manufacturers including, Schlage, Medeco, Medeco Bi axial, LCN, Master Lock, HPC, Yale, Von Duprin, Kwikset, Arrow, Dexter, Weiser and Sargent. The company also specializes in designer solid brass

hardware by Schlage, Dexter, Valli Colombo, Omnia, and others.

President of the company is James Nathan Bond; the secretary/treasurer is Toni Cailoa Bond. J. Nathan Hardware Specialties is located at P.O. Box 115, Rochester, NY 14601, (800) 634-2580, (716) 325-3330.

Circle 257 on Rapid Reply

## Security Lock Distributors

Security Lock Distributors is a specialized wholesaler and a family-run operation, with tremendous depth of knowledge. Along with father Sid Schwartz, sons David and Jeff bring knowledge and experience to the lock industry. To complement that knowledge, they stock only a few, select lines. Their specialties include Arrow, Adams-Rite, Folger-Adam, Simplex and Bommer Mailboxes.

Whether it concerns the most common, everyday lock or some exotic item in an odd finish, Security Lock stands ready to help with price quotes, information and technical assistance. They have made it even easier to communicate with them with the installation of a FAX machine. Their FAX number is (617) 964-7376. They can still be contacted on their toll-free numbers as well: Nat'l. (800) 847-5625 and in Mass. (800) 843-5625. ■

Circle 258 on Rapid Reply

## Explosive Safe

*Continued from page 52*

As I mentioned earlier, the opening of any safe should not include force of prying and beating. If your techniques are of this nature, I strongly advise you to pass up opening safes in these situations. Plus, get into a safe class and learn the correct procedures of your trade. My method of opening the outside door apparently passed the test. My initial thoughts of how to open the inner door, could have been a fatal decision.

Manipulation would probably be the safest method of opening, if your skills and patience are geared in this direction. If not, or if the lock resists manipulation, extreme caution is the key factor.

My partner, Mary McCalester, gave me this suggestion. Have the bomb squad bring out their explosive sniffing dog and ask the dog to bring his own drill. ■



## Do-It-Yourself Lawsuits

**"Don't get mad. Get even! If you have a claim against someone, chances are you can get justice through the Small Claims Court. Just learn the rules."**

by Fred Steingold

Judge Wapner must feel proud. As a result of his TV show, "The People's Court," more people are going to small claims court to resolve their disputes. In some cities, small claims cases have increased by 30 to 50% since the popular TV show began a few years ago.

Small claims court is a valuable—and often overlooked—resource for small and mid-sized businesses. It gives you an opportunity to get justice quickly and inexpensively. And, while going to court may not replace fishing or bowling as your favorite recreational activity, the locksmith may enjoy the chance to be his own lawyer

occasionally.

You're most likely to go to small claims court to compel payment from a customer who refuses to pay a bill. But many other legal situations are also suitable candidates for small claims court. For example, you might go there to sue a supplier who won't refund a deposit that you're entitled to. Or you might sue a sub-tenant who moved out of your place and failed to pay the last month's rent, or a company that damaged your back door while making a delivery.

Nearly every state has a small claims court. Sometimes it's a separate court; other times it's a division or depart-

ment of another court such as a municipal district or county court. Whatever it's called, small claims court is designed to provide speedy and inexpensive hearings in cases involving relatively small amounts of money.

Generally, in a small claims case you have no right to a trial by jury. In some states, the right to appeal is also lost. If you go to small claims court, you can handle your own case and avoid legal fees. In some states, lawyers aren't even allowed in small claims cases.

If you're doing business as a corporation, check with the court clerk to make sure that you, as a non-lawyer, can represent the company in court.



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Remember that a corporation is a separate legal entity from its owners. Some states take the position that appearing in court for a corporation amounts to practicing law without a license. Other states allow a corporation to designate an employee to appear for the company in small claims court.

If you proceed on your own, you may still want to consult with your lawyer for 15 or 20 minutes on strategy and the best way to fill out the court papers. Small claims court is designed for people with no legal education. The court clerk will probably have a booklet or information sheet that explains procedures in plain English. The clerk may even help you fill out the necessary forms—which are usually quite simple.

There are limits on how much you can sue for in small claims court. In most states, the upper limit is in the range of \$1,000 to \$2,000. However, the upper limit can be as low as \$500 or as high as \$5,000. Ask the clerk for guidance.

If a customer owes you \$1,650 and the jurisdictional limit in your small claims court is \$1,500 you may decide to sue for \$1,500 and forget about the excess. In the long run, this may be less

expensive than suing in the regular court.

In representing plaintiffs, lawyers typically name as many defendants as possible in a lawsuit. This increases the chance of getting a collectible judgment from at least one person. Such a strategy can be effective in small claims cases too. If a husband and wife ordered lock installations on their house and owe you money, sue both of them. Similarly, if an employee of a computer repair company has damaged your equipment in the process of repairing it, sue both the employee and the company.

You start your small claims case by filling out a complaint or statement of claim. Briefly describe why the defendant is liable to you, and tell how much money you're asking for. If you're suing on a contract, attach a photocopy. After you pay a \$5 or \$10 filing fee, the clerk will issue a summons informing the defendant about the suit and when the hearing will be held. Usually the summons and complaint can be served by registered or certified mail. In some places, the clerk's office will take care of sending out the papers to the defendant.

At the hearing, you'll probably find

that the rules of evidence are relaxed and procedures are informal. Without a lawyer present, the usual question-and-answer format isn't used. You simply tell what happened and present your witnesses. Speaking of witnesses, spend a few minutes with them in advance reviewing their testimony.

You can subpoena witnesses but usually you won't want to compel someone to appear unwillingly. Such a witness can do more harm than good. However, a subpoena can be helpful for a friendly witness; the witness can show the subpoena to his or her employer to prove that there's a legitimate need to leave work.

In formal legal proceedings, expert opinions (such as an appraisal of damaged property) must be personally presented in court by the expert. But many small claims courts will accept written opinion evidence, even though technically it's hearsay. Consider getting a written report and telling the expert to be on standby in case the court wants in-person testimony. If that occurs, request a brief adjournment while you call the witness to come to court.

Bring to court all records and papers that relate to the transaction. It's better



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to have too many papers than too few. Also, visual evidence can help establish facts. Truly, a picture is worth a thousand words. Use photographs where appropriate. Consider using drawings to show how a room is laid out or how a complicated piece of machinery works. Chalkboards or large drawing pads are usually available in the courtroom for this purpose.

Tell the judge what happened. Don't address your remarks to the other side. At the end of the case, it's appropriate to point out inconsistencies or fallacies in your opponent's testimony. But stick to the facts. Don't put your argument on a personal basis.

Judges allow limited time for small claims cases—typically no more than 30 minutes per case. This means you need to organize your presentation focusing on the key facts.

Remember to ask for costs. If you win, you're entitled to have the other side pay your filing fees, any fees paid for service of papers, and any fees you've paid to witnesses you've had to subpoena.

If the defendant doesn't show up for trial, ask for a default judgment which automatically grants you the relief you want. Suppose the show is on the other

foot. Suppose that you receive small claims papers naming you as the defendant. Check to see if you're required to file a written answer. Usually the summons will say whether or not a written answer is required. If you're in doubt, call the court clerk or check the local rules.

As a defendant, you should consider whether you want to hire a lawyer (if lawyers are allowed in your particular court) and also whether you want to remove the case from small claims to the regular court, if that option is available. Also, see if you have a counterclaim against the person who sued you.

It feels good to win a judgement in small claims court, but it feels even better to get payment. Most people pay voluntarily after a judgement is entered. When the losing party does pay you, he or she is entitled to a paper—often called a "satisfaction of judgment"—acknowledging payment. But don't sign such a document unless you've been paid in cash or by a certified or cashier's check, or money order.

What if the judgment debtor doesn't pay you? If you know where he or she works or has a bank account, you can start garnishment proceedings. By filing certain forms with the court, you

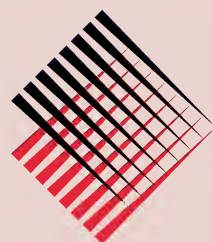
can require the debtor's employer to pay the judgment out of wages, or bank to pay it out of a bank account.

Here's a practical tip: When you extend credit to customers, find out where they're employed and where they do their banking. This information can be helpful if later on you need to collect a judgment from them. If you don't know where the debtor works or has assets, there are court procedures for requiring disclosure of these things. The debtor will have to state under oath where he or she works and banks, and will also have to disclose any other assets.

As a rule of thumb, if you can't learn the defendant's employer or bank, your chances of ever collecting the debt are slim.

*Fred S. Steingold practices law in Ann Arbor, Michigan. He is president of the Business Enterprise Institute and author of Legal Master Guide for Small Business (Prentice-Hall, Inc., 1983).*

*Legal questions of general interest will be considered for future columns. Write "The Legal Advisor" in care of this publication. See your own lawyer for specific legal advice. ■*



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# Shop Talk

Helpful Questions and Answers

**Written by all of the following authors: Dave McOmie, Shirl Schamp, Don O'Shall, Steve Spiwak, Jack Roberts, and Robert Sieveking.**

Send your locksmith questions, along with a self-addressed stamped envelope to: Shop Talk, *The National Locksmith*, 698 Bonded Pkwy., Streamwood, IL 60107.

*Here is a letter we recently received from a pretty sharp reader of Shop Talk:*

This letter is in response to Mr. David Hadler's queries concerning Diebold's 175-70 safe deposit box lock, in the December 1987 issue of *The National Locksmith*. There is indeed such a lock. In researching for an I.D. I can only assume your source was Diebold's 1987 Banklock parts catalog. If this is the case, true, no listing will be found. However, the catalog prior to this later edition shows almost all—no opening procedures. Here are some highlights:

PART NO.	DESCRIPTION
00-017570-L-00-0	L/H Safe deposit box lock
00-017570-R-00-0	R/H Safe deposit box lock (They are handed)
11-032850-0-00-A	Operating instructions
31-016509-0-00-A	Change tool (Do not substitute)

Also listed are part numbers for posts, tumblers, bolts, cases, etc. but these are not sold as parts. The reason being "it defeats the idea of a disposable lock" which is Diebold's intent with the 175.70. The locks can be obtained through Diebold, (800) 821-7248. So I guess what we end up with is a double changeable (both renter & guard), disposable (Diebold catalog price, \$19.00 to end user as well as you) safe deposit box lock. On to opening information.

As far as drilling for mounting screws, I don't recommend it. The reason being that the upper right mounting screw (upper left for right hand mount) is cleverly covered by the bolt when locked preventing full removal. I

suppose you could destroy the screw but now you're stuck with a door repair or replacement, both of which, at least in this case, defeat the concept of cost effective lock-out servicing. Hinges would be no problem except that the lock "slides" into the hinge and *then* is attached by two screws. You could drill the screws but the lock would still be effectively fitted to the hinge in it's locked condition. Besides you still have a case of *cost syndrome*.

I would like to offer the following procedure: 1. Drill ( $\frac{3}{8}$ " bit) straight down renter's side post. 2. Continue to drill until you've gone through all seven levers. 3. Remove drill often to inspect progress. Next, pull drill out about  $\frac{1}{2}$ " and with a *very slight* angle upward drill through levers once more. What you should have now accomplished is to shear away the bottom portion each lever's gate. 4. Lift up what remains of these levers as high as you can (equal to a 1" or shallowest cut) with a probe or hook pick to clear any high fence. 5. Throw the bolt, open the door, and replace.

Alternatives: Omit step (3) above. Instead chuck up to  $\frac{3}{4}$ " using  $\frac{3}{8}$ " hole as a guide. This leaves you with just enough "wall" to protect the door. Or, pull the nose and use either bit. I cannot guarantee you success, but this has worked. See illustration one for further details.

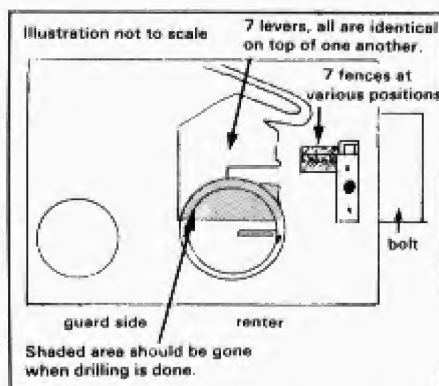


Illustration 1

H.D. Snowden  
Indiana

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*Here's another kind reader who has written some further explanation of a previous Q and A:*

After receiving my November 1987 issue of *The National Locksmith* I turned directly to *Shop Talk* as I usually do. There was finally an article on the Falcon interchangeable core locks. I was wondering if I was the only one that had the problem of a control key that wouldn't work.

I have been a locksmith at a university for 10 years. During that time there has been a continuing program to convert over our campus to the Falcon interchangeable cores.

Everything you said was true with regards to the wearing of pins and keys, but there are a couple of things I have found that causes the control key not to work. The core, specifically the control ring wears out. I have had the control ring wear almost in two and sometimes three pieces at the bottom along the pin ejection holes, cracking the control ring. The other problem is the outer shell cracks on the left side, in the middle, in front of the control cam.

Usually one key will work either the change key or the master key. In my case since I use key-in-knob locksets the knob and core can be taken off and new ones put on. But in the case of deadbolts I have found the best way is to drill or pull the core, its already past the point of repairing after it is cracked or broken.

In heavy use areas such as dormitories this is a continuing problem which requires you to make a decision as to which you require most—convenience to change the cores quickly, or a more durable lock that will stand up to years of continued use with no changing.

I have just received some new cores and see Falcon has changed their design of the outer shell and key stop, I sure hope this will help. One more thing, thanks for your great magazine.

Terry Smith  
Missouri

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*Q: I have been requested to open a safe manufactured by the Guardian Safe Company, LaPorte, Indiana. This safe is not covered in the manuals I have and the company is apparently no longer in business. (See photograph 2.)*



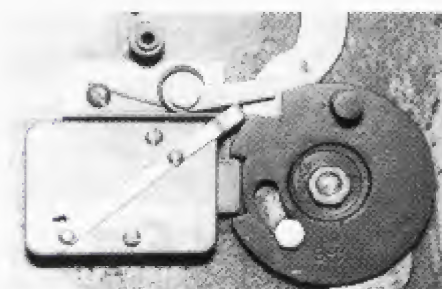
**2. Guardian Safe Company safe.**

*The safe measures 27"H x 22 1/2"D exclusive of wheels. It bears the U.L. listed safe label 470828. It is fire rated C and labeled T-20 tamper resistant. The horizontal handle is attached to the post by a cap nut. The serial number stamped on the post is C16222170. The dial is 3" in diameter and might possibly be an S&G #D003.*

*I would like to know the drop-in and drill points, drill angle, door thickness and location of any hardplate.*

*David Hadler  
Indiana*

**A:** The Guardsman fire safe you have was actually manufactured by Schwab. It uses an S&G #R6730 mounted R.H. Drop-in is 98; the drill point is the same. Pull the dial and drill straight in.



**3. Guardsman fire safe's internal locking arrangement.**

The door thickness to the lock is approximately 3". Photograph three illustrates the internal locking arrangement looks like. Good luck. 04

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*Q: This is a tale of Two Privies. Our local silversmith recently purchased several surplus, or out-commoded—forgive the puns—Forest Service out-houses. They came locked with Yale brass padlocks and no keys. (See illustration 4.) Eloy, the silversmith, gave me one still attached to a hasp that weighs several pounds. The lock was fairly easy to pick open despite its close-fitting feel but I have not found a Yale blank that will enter the keyway. A 5EL1 with a bit removed from the back will enter grudgingly. The lock has 6 pin chambers with 5 in use.*

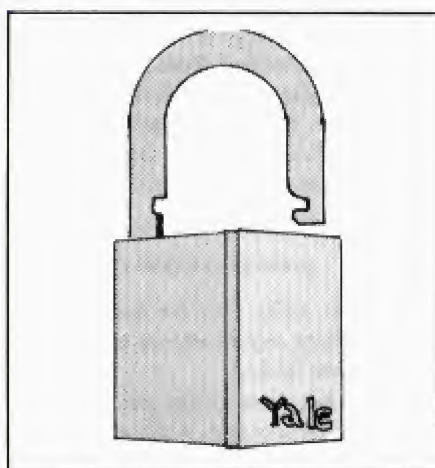


Illustration 4

*My questions are: Does this padlock government issued have a restricted keyway? How is the plug retained? There is no retainer under the 6th pin hole cover. If I drill the remaining pin hole cover to get the plug out, are replacement plugs available?*

*Charles Ludlow  
Colorado*

**A:** The lock you have described is a Yale 7313 and is available with any of the many sections manufactured by Yale. Since you have been successful in getting a 5EL1 blank to enter the keyway, my guess is that it is a reverse of the Yale 8 and that a 5YA13 is the blank that you are looking for. Although this is not a restricted keyway, it certainly isn't a very common one but you should have no trouble locating blanks.

If your impressing skills are equal to your picking skills you should be able to impression a key without too much difficulty. My guess is that the locks are keyed alike and if so, when you get the first one made you will have the key to the men's room, several of them in fact.

The reason you don't find a retainer in the sixth chamber is because that is a pin chamber for a six pin key, the 7313

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being available as either 5 or six pin models. The retainer pin is located between the fifth and sixth pin chambers just to the left of the pin row with the shackle pointing away from you. This is slightly smaller than the pin hole covers and you may need a magnifying glass to locate it.

I would suggest that you not drill anymore until you have made an attempt to impression using the 5YA13. If you are not successful in impressing you will have to drill each pin hole cover—Yale calls these pin hole disks and carefully dump the contents of each chamber. If I am wrong about the 5YA13, you probably have a Government Restricted keyway in which case you can order replacement plugs in the keyway you desire although this would not be cost effective and certainly will take a lot of time. 03

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*Q: What safes can be manipulated and are there any shortcuts to manipulating some locks?*

*I also have one more question if its not to much trouble. This pertains to a Adesco C-rate lift out square door (SY66730VU), when you dial the right combination but the safe won't open. When you try and turn the dial again to redial, it will only turn 5 right or left and stops there.*

*What could be the problem besides the relocker maybe went off?*

*Allan Fox  
Oklahoma*

A: Your question is a very good one. As a rule, about 80% of the group 2 safe locks presently in use can be readily manipulated. Many of the manipulation resistant type locks will also yield to manipulation if special techniques are employed. By studying the mechanisms, you will find that no lock is perfect and almost all will give an indication of one type or another. The level of proficiency or equipment required to manipulate some locks is such that manipulation can become impractical. Of the locks in use today, the "direct entry fence," "gravity fence," "Yale friction fence" and spring loaded fence (group 2)" will all give indication and can be manipulated using commonly accepted standard manipulation principles.

Are there any "short cuts" to manipulation? Every short cut I've ever tried has found me looking down at my own tracks. Most short cuts will lead you



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right back to where you started. To keep from going in circles, travel the straight and tried path. Work from the beginning to the end. Follow each step in manipulation completely and without fail. To deviate is to invite failure.

About the Adesco floor safe, as you have described the problem, it seems that the bolt works may be jammed against the lock bolt. After dialing the proper combination, the lever is dropping into the drive cam gate. After *trying* to retract the bolt, the lever will not rise up out of the drive cam gate without difficulty. This sounds like the bolt is partially retracted. The lever stop is preventing, or at least making it hard to re-extend the bolt far enough to free the dial. The safe door should fit rather loosely in the safe.

If you can't rattle the door, you probably have a bank bag or something wedged between the bolt and the door flange. Clockwise rotation of the handle would retract the bolt. Try turning the handle counterclockwise while attempting to retract the lock bolt. By removing the side pressure on the lock bolt, the bolt can probably be retracted, allowing the door bolt to be retracted. Use a little caution when applying force to the opening handle. It is designed to shear off if too much force is applied. Illustration five shows the most probable cause of your lock-out.

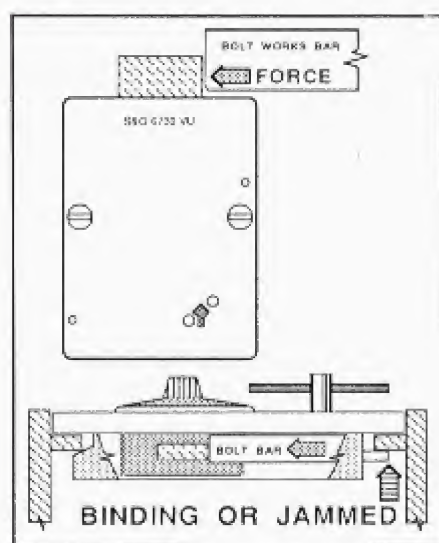


Illustration 5

As an afterthought, ask the customer if he has worked on the safe lock, or has allowed anyone else to work on it. There are two relockers in this safe. One is integral to the lock, the other is a bolt blocker integral to the door. If the lock cover has become loose from the lock, drill for the relocker on the lock first. This will allow the lock bolt to be

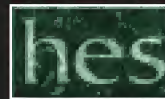


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## BMW Sidewinder

*Continued from page 41*

The "sidewinder" plug has a key retainer located in a chamber just behind the face cap which can be seen in photograph four. When the plug is turned, a groove in the shell allows this retainer to move upward and engage the notch located midway on the blade of the key. (See photograph 9.) This retainer must be depressed when attempting to remove the key for re-combination.

Codes are not available at this writing for the sidewinder, but a guide key set (LHBMW-2) is available from Hawkins Locksmith Products in El Cajon, California.

Although this lock cylinder may appear formidable at first glance, it really isn't all that difficult to service. A roll pin holds the cam assembly on the end of the plug. Drive the roll pin out with a pin punch, set the cam assembly aside, carefully remove the plug with an eye for the "Beemer Bullet" which is located just behind the face cap, and recombine the plug as described. After the first one the challenge will be gone and you can wait for a new challenge to come through the front door. ■

## Combination Locks

*Continued from page 44*

the drop lever against the left side of the drive cam. 3. Once you find the left side of the drive cam, turn slowly left to feel the collision of the nose of the drop lever to the right side of the drive cam.

Let us say that you located the opening area and it is between 05 and 15. In the field, it could be any one of the four areas shown previously.

You will ask your customer to select three new numbers and if they want to use a number between 05 and 15 for the last number of the combination, you will remove the back cover of the lock and remove the spline key, turn the drive cam to another location and re-install the spline key, and replace the back cover of the lock.

Depending on your selection of the new opening area, it will cause the existing combination to be +25, +50, or -25 numbers from what it was originally.

After you set a new combination, it is required that you test it 3 times as follows: First test is on the numbers set. Second test will be on the numbers set plus ½ a number. Third test will be on the numbers set minus ½ a number. The lock must operate at least two out of three tests. ■

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## Letters

*Continued from page 6*

would not be able to make them, so the locksmith would lose some of the car opening business.

As far as ALOA is concerned there would be no effect at first, however in a couple of years there will be fewer locksmiths because he will have less marketable skills. There will be less manufacturers at conventions because they will no longer be around; less people coming because there is less to see. Less distributor support of ALOA because who wants to support an organization that wants to pass a bill that advocates a 10 year prison term and a \$10,000 fine for its associate members.

In the final analysis the big losers are the locksmiths and trade organizations, and the big winners are a few more jobs for the postal inspector and a big plus for lawyers. My advice is why fix something that is not broken?

Name withheld on request

## Shop Talk

*Continued from page 67*

retracted. Drill carefully. Use a carbide bit through the hard plate, then switch to a standard twist drill (sharp or new) before penetrating the lock case. If you blow the back of the lock off, you are sure to set off the second relocker. If the safe will not be opened with the lock bolt retracted, drill for the door relocker and punch it off. *Apply turning pressure to the safe handle while punching the relocker.* The door relocker will be found 2¾" left of dial center and 1" up. 06

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